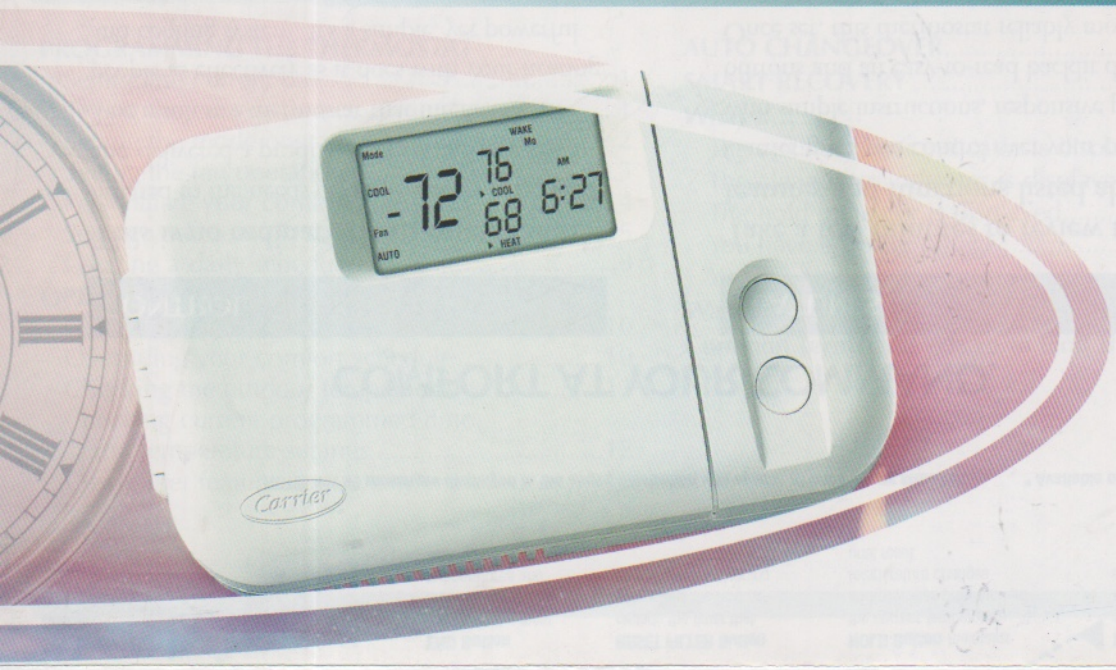
Carrier

PROGRAMMABLE THERMOSTAT

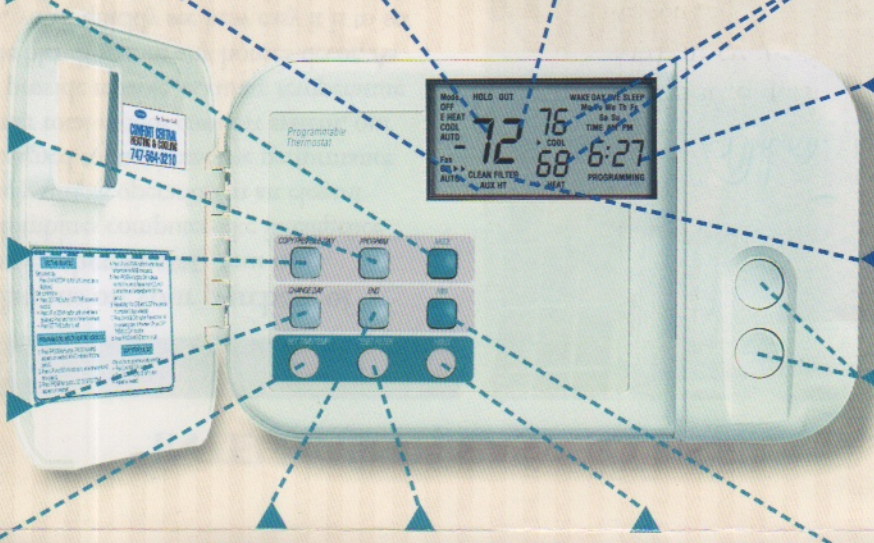
HOMEOWNER'S GUIDE



INTELLIGENT, EASY TO USE.

COMFORT

Congratulations on your purchase of a new Carrier thermostat. Your new thermostat combines computer-like intelligence with extremely simple operation in an elegant package. Designed to maximize the performance of your Carrier total indoor comfort system, our thermostats provide reliable, accurate temperature control while blending into any home's decor. As you read on, you'll quickly see how easy it is to set up and operate your new thermostat and enjoy the comfort of your home.



*** Auxiliary Heat Indicator** is displayed when a heat pump system's auxiliary heat is on.

Room Temperature Display shows current room temperature.

Outdoor Temperature Display shows the outdoor temperature.

Temperature Settings Display shows the temperature settings for current time period.

MODE Button selects OFF, HEAT, COOL, or AUTO operation. Heat pump thermostats include EMERGENCY HEAT mode.

Time of Day Display

PROGRAM Button starts the programming process and moves you from one step to the next.

COPY PREVIOUS DAY Button "memorizes" the current day's comfort schedule and copies it into the next day's schedule.

Clean Filter Indicator lets you know it is time to clean or replace your system's air filter.

CHANGE DAY Button advances you to the next day to be programmed and advances the day of the week display.

UP AND DOWN Buttons change the temperature settings. They are used for programming and to access outdoor temperature.

SET TIME/TEMP Button

END Button "locks in" the most recently entered temperatures and schedule.

RESET FILTER Button restarts the timer that determines the next air filter change or cleaning.

HOLD Button maintains the current temperature and overrides programmed temperature changes until reset.

FAN Button chooses ON or AUTO fan operation.

NOTE: Not all messages displayed in the above illustration will appear at once in any situation.

*** Available on selected models.**

COMFORT AT YOUR COMMAND.

CONTROL

This is no ordinary thermostat. Carrier listened to the needs of homeowners nationwide and delivered a product to meet those needs. The result is a thermostat that interacts with people as effectively as it does with your heating and cooling system. It's a simple, yet powerful control that puts comfort at your command.

FEATURES

Take a few minutes to review the features and functions listed above. Carrier gives you control over your comfort with simple instructions, responsive push buttons and an easy-to-read backlit display. Once set, this thermostat reliably monitors indoor temperatures and responsively meets your comfort demands.

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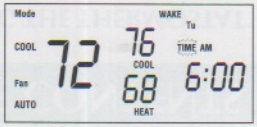
Setting the current day

1 CHANGE DAY Press the CHANGE DAY button. The day of the week will change.

2 Stop on the desired day. The thermostat then follows the program schedule for that day.

Setting the current time

1 SET TIME/TEMP Press the SET TIME/TEMP button. The word TIME flashes on the display.



2 Press the UP or DOWN buttons until the correct time is displayed. To quickly advance to the proper time, press and hold the UP or DOWN button. To ensure accurate programming, be sure that AM or PM is properly selected.

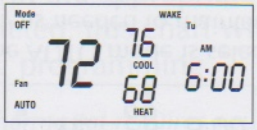
3 When the correct time appears on the display, END press the END button.

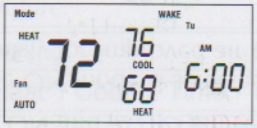
NOTE: If you choose not to press the END button, the word TIME will stop flashing after 15 seconds.

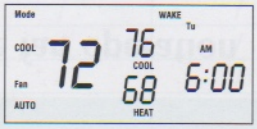
Setting mode operation

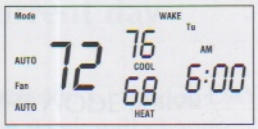
1 MODE Press MODE button.

2 When the MODE button is pressed, the words

OFF, 

HEAT, 

COOL, 



and AUTO will rotate on the display.
If you have a heat pump, the display will show OFF, HEAT, COOL, AUTO, and EHEAT.

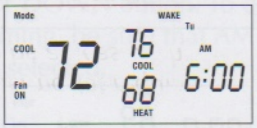
NOTE: In AUTO mode, your system will heat OR cool as needed to reach your temperature settings. AUTO mode may be turned off. Contact your indoor weather expert for details.

3 MODE Continue to press the MODE button until you reach the desired setting.

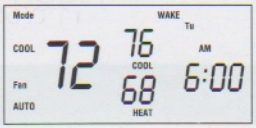
Setting the fan operation

1 FAN Press the FAN button to switch between ON and AUTO fan settings.

When the ON mode is selected, the fan runs continuously for improved air circulation.



When the AUTO mode is selected, the fan runs only as needed to maintain your indoor temperature settings.



Personalize Your Comfort

Before you program your thermostat, take a moment to plan your temperature schedule. Each day of the week is divided into 4 time periods: WAKE, DAY, EVENING, and SLEEP.
For each time period, enter a start time, heating temperature, and cooling temperature in the appropriate blank. Once completed, this chart will be your guide during programming.

NOTE: Your thermostat requires your cooling temperature to be at least 2° higher than your heating temperature.

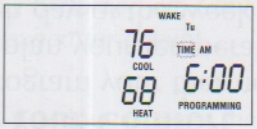
	Wake	Day	Evening	Sleep
	Time / Heat° / Cool°	Time / Heat° / Cool°	Time / Heat° / Cool°	Time / Heat° / Cool°
Monday	/ /	/ /	/ /	/ /
Tuesday	/ /	/ /	/ /	/ /
Wednesday	/ /	/ /	/ /	/ /
Thursday	/ /	/ /	/ /	/ /
Friday	/ /	/ /	/ /	/ /
Saturday	/ /	/ /	/ /	/ /
Sunday	/ /	/ /	/ /	/ /

Setting your comfort schedule

Before you begin programming, refer to page 4 of this manual to plan your personal comfort schedule.

1 PROGRAM Press the PROGRAM button.

The word PROGRAMMING appears on the display and the word TIME flashes on the display.

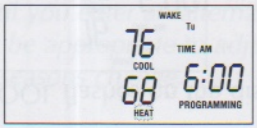


Above the clock, the word WAKE, DAY, EVE, or SLEEP will appear. The day to be programmed is displayed with a 2-letter abbreviation: MO, TU, WE, TH, FR, SA, or SU.

NOTE: Your thermostat will always start the programming process in the current time period and current day. You may wish to begin programming on a different day or time period. To change the time period, press the PROGRAM button as needed until the correct time period, WAKE, DAY, EVE, or SLEEP appears. Press the CHANGE DAY button to display the desired day.

2 Using your personalized comfort schedule as a guide, press the UP and DOWN buttons to set the time for the indicated time period.

3 SET TIME/TEMP Press the SET TIME/TEMP button. The word HEAT flashes on the display.

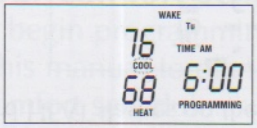


NOTE: Pressing the SET TIME/TEMP button allows you to select between HEAT, COOL and TIME settings.

4 Press the UP and DOWN buttons to adjust the heating temperature setting to match your personalized comfort schedule.

5 SET TIME/TEMP Press the SET TIME/TEMP button to select the cooling temperature setting for this time period.

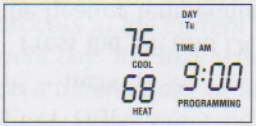
The word COOL flashes on the display.



6 Press the UP and DOWN buttons to adjust the cooling temperature setting listed in your personalized comfort schedule.

NOTE: Don't forget, your COOL setting must be at least 2° higher than your HEAT setting. Your thermostat will automatically change your previously set temperature to maintain that 2° difference.

7 *PROGRAM* Press the PROGRAM button to advance to the next time period. Following your personalized comfort schedule, enter times and temperatures for DAY, EVE, and SLEEP time periods.



You have now programmed 1 day into your thermostat. At this time, you can either repeat steps 1-7 until all days of the week have been programmed, OR you can copy the schedule onto the remaining days of the week. See the section on "Copying a daily schedule" for details.

NOTE: During programming, if you have not touched a button or made an entry within 3 minutes, the programming mode will automatically shut off. Anything you have programmed will be saved.

8 *END* Press the END button when you finish entering your comfort schedule.

NOTE: Once you've programmed your comfort schedule, the thermostat will continue operating on that program until you enter an alternative schedule. It may be appropriate to adjust temperatures as seasons change.

Copying a daily schedule

Typically, your Monday through Friday comfort schedule will be the same. That's why the thermostat includes a COPY PREVIOUS DAY button. When programming, this eliminates the need to re-enter identical information for each day.

1 Program a daily schedule.
Suggestion: Start with Monday so the following 4 days can be copied.

2 *CHANGE DAY* Press the CHANGE DAY button to move to the next day.

3

Press the COPY PREVIOUS DAY button.

The previous day's schedule will be entered into the new day.

4 Continue this process by repeating steps 2 and 3.

Changing your comfort schedule

1

Press the PROGRAM button to begin the programming process.

2 Make necessary changes by following previous sections.

3

Press the END button to end the programming process.

NOTE: Entering new information always deletes the old selections. Refer to the table of contents at the front of this guide to locate the type of programming you desire.

Overriding your comfort schedule

There are 2 ways to override the existing program.

1

Pressing the HOLD button.

By pressing the HOLD button, the thermostat will maintain the current temperature settings and ignore the comfort schedule for an indefinite period of time. The word HOLD will appear in the display. Press the HOLD button a second time and the thermostat will resume normal operation, returning the temperature settings to the programmed comfort schedule. The thermostat will change the temperature setting as needed upon the next program

cycle. Pressing HOLD will not permanently alter your set program.

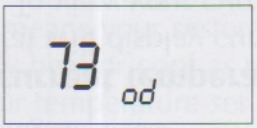
4 Pressing the UP or DOWN buttons.

By pressing the UP or DOWN button, the current temperature settings appear on the display. Pressing the UP or DOWN button again will temporarily change the temperature setting above the flashing indicator as needed. To change the other setting for this time period, press the SET TIME/TEMP button until the other setting indicator flashes. Pressing the UP or DOWN button again will temporarily change the other temperature setting as needed. The thermostat will automatically restore the comfort schedule settings at the next programmed time.

Checking the outdoor temperature

1 Press the UP and DOWN buttons simultaneously.

2 The outdoor temperature will appear on the display.

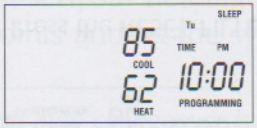


NOTE: If 2 dashes (--) appear, your thermostat does not include the outdoor temperature sensor or the sensor is not working properly. Check with your dealer if you are unsure.

Checking current programmed time and temperature settings

1 PROGRAM Press the PROGRAM button.

2 The current time and temperature settings for the current day and time period are displayed for you to check.



3 PROGRAM Press the PROGRAM button again to advance to the next time period for same day. Continue this process to review all settings for the day.

4 CHANGE DAY Press the CHANGE DAY button to view the next day's settings.

5 Repeat steps 3 and 4 to review entire 7 day schedule.

CAUTION: Pressing any other buttons while reviewing current selections could alter the set program.

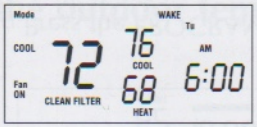
6 END Press the END button to exit the program mode.

Checking current temperature

The thermostat will display current temperature. To view your current temperature settings, press the UP or DOWN button once. The heat and cool temperature settings will be displayed.

Clean filter feature

Your thermostat reminds you when it's time to change or clean your filter by displaying the CLEAN FILTER indicator.



1 RESET FILTER Press the RESET FILTER button after you have changed or cleaned your filter to restart the timer.

Your thermostat provides complete, automatic control over heating and cooling with auto changeover. Auto changeover means your system will automatically heat or cool as needed to maintain your temperature set points.

Auto changeover makes life easier because you no longer have to manually switch the thermostat between heating or cooling operation. Just set your heating and cooling set points and let the system do the rest!

NOTE: If auto changeover is not necessary in your area of the country, your installer may disable the AUTO mode.

SMART RECOVERY 15

Smart recovery is a feature of your new thermostat designed to save energy by gradually adjusting temperatures.

When it's time for a programmed temperature change, smart recovery begins working in advance, turning the system on and off as needed to slowly adjust the indoor temperature. During these transition periods, you may notice that the actual temperature and your temperature setting don't match. That's smart recovery in action, adjusting temperatures in small increments for greater energy efficiency. This is more energy efficient than simply allowing the system to operate at full capacity until the desired temperature has been met.

NOTE: The thermostat will start adjusting the temperature 1.5 hours before the scheduled temperature change. Smart recovery does not apply to cooling operation.

WHAT IF... 16

AUXILIARY HEAT indicator is displayed...

The AUX HT indicator appears on the heat pump version of the thermostat only. It is displayed when your system is operating on auxiliary heat.

NOTE: This indicator does not reflect a problem with your system.

CLEAN FILTER indicator is displayed...

The CLEAN FILTER indicator tells you when to clean or replace your system's air filter. Press the RESET FILTER button after cleaning or replacing the filter to turn off the indicator and restart the timer.

NOTE: This indicator does not reflect a problem with your system.

HOLD indicator is displayed...

The HOLD indicator reminds you that your thermostat's comfort schedule has been overridden. This function will hold the current temperature settings indefinitely, so it can be used to hold an energy-saving temperature setting for several days if needed. Press the HOLD button to resume normal system operation.

NOTE: This indicator does not reflect a problem with your system.

You have a power outage...

An internal power source eliminates the need to reprogram the thermostat after power outages. The comfort schedule you have entered will be maintained indefinitely. The clock will run for 72 hours.

You have a system error message...

The display may appear as follows: --, E2, or E3

- **--** indicates a problem with the indoor air sensor
- **E2** indicates low line voltage
- **E3** indicates a problem with the outdoor air sensor

WARRANTY 18

This thermostat includes a 1-year limited warranty. For detailed warranty information, please refer to the All Product Limited Warranty Card included in your information packet. This thermostat is also eligible for manufacturer's extended system warranties. Ask your dealer for details on extended warranties for longer-term protection.

Auxiliary Heat .....Pg. 16

Most heat pump systems require a supplemental heating source, called auxiliary heat, to maintain your comfort when outdoor temperatures fall significantly. Your thermostat lets you know when your home is being warmed with supplemental heat.

NOTE: For additional energy savings opportunities, ask your dealer about locking out auxiliary heat at a selected outdoor temperature.

Change Day .....Pg. 1

Change day is a function of your thermostat's programming. Once you've programmed a day's heating or cooling schedule, you move to the next day by pressing the CHANGE DAY button. This button also advances the day of the week on the display.

Clean Filter .....Pg. 13

Your system's air filter will require regular cleaning to reduce the dirt and dust in the system and your indoor air. The CLEAN FILTER indicator lets you know when it's time to clean the filter.

Comfort Schedule .....Pg. 4

The comfort schedule is a personalized list of the heating and cooling temperature settings along with a corresponding time

of day. This schedule includes 4 time periods per day, and can feature a different comfort schedule each day of the week.

Copy Previous Day .....Pg. 8

This programming function allows you to copy the previously programmed day for use in setting the current day's schedule. It is activated by pressing the COPY PREVIOUS DAY button.

Current Day and Time .....Pg. 1

The day of the week and current time are displayed continuously on the display.

Emergency Heat .....Pg. 3

This indicates that auxiliary heat is being used without the compressor.

End .....Pg. 2

The END button returns the thermostat to normal operation.

Fan.....Pg. 3

Your system's fan can run continuously or only as called for during heating or cooling. Continuous operation helps with air circulation and cleaning. Automatic operation provides better efficiency. Press the FAN button to make your choice.

Hold .....**Pg. 2**
This function allows you to override the programmed temperature settings.

Mode. .....**Pg. 2**
Mode refers to the type of operation your system is set up to perform. Mode settings include: OFF, HEAT, COOL, and AUTO. Heat pump systems also include EMERGENCY HEAT (EHEAT).

Outdoor Temperature .....**Pg. 11**
Your thermostat not only registers the indoor temperature, but it may also be equipped to register and display the outdoor temperature as well. Press the UP and DOWN buttons simultaneously to read the outdoor temperature display.

Override .....**Pg. 10**
Temporarily disregards the thermostat's programmed temperature settings and schedules. You can override the system by pressing the HOLD button to maintain the current temperature indefinitely or by pressing the UP and DOWN buttons to change the temperature settings for the remainder of the current period.

Power Outage.....**Pg. 17**
Complete loss of electricity. Your thermostat has an internal power source

that allows it to continue to run for 72 hours or more without electricity. Programmed settings are stored indefinitely without the aid of batteries.

Program .....**Pg. 5**
The program function of your thermostat allows you to enter time and temperature information into the thermostat. To activate the program function, press the PROGRAM button.

Reset Filter.....**Pg. 13**
The reset filter function turns off the CLEAN FILTER indicator and restarts the timer. Press the RESET FILTER button after you've cleaned and replaced the system's air filter.

Set Time .....**Pg. 1**
This function allows you to set the proper time, ensuring accurate heating and cooling schedules. Press the SET TIME/TEMP button to activate.

Temperature Sensors.....**Pg. 12**
Temperature sensors measure the current indoor or outdoor temperatures which are displayed on the thermostat.

Temperature Settings .....Pg. 7

These settings are the temperatures programmed into the thermostat as part of your comfort schedule. The actual room temperature will automatically be displayed, but you can check the desired temperature for the current mode by pressing either the UP or DOWN button.

Time of Day .....Pg. 4

When programming the thermostat, time of day refers to the 4 time periods available, including WAKE, DAY, EVE, and SLEEP. Time of day also refers to the time shown on the thermostat's display.

Up and Down Buttons.....Pg. 1

These buttons are used to set the clock and enter other time and temperature information.

Carrier

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